==========
Sequence Listing was accepted.
If you need help call the Patent Electronic Business Center at (866) 217-9197 (toll free).
Reviewer: Durreshwar Anjum
Timestamp: [year=2008; month=4; day=9; hr=14; min=31; sec=43; ms=324;]
==========

Validated By CRFValidator v 1.0.3

Application No: 10588414 Version No: 1.1

Input Set:

Output Set:

Started: 2008-04-09 14:27:44.426
Finished: 2008-04-09 14:27:46.465
Elapsed: 0 hr(s) 0 min(s) 2 sec(s) 39 ms
Total Warnings: 120
Total Errors: 0
No. of SeqIDs Defined: 120
Actual SeqID Count: 120

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (1)
W 213	Artificial or Unknown found in <213> in SEQ ID (2)
W 213	Artificial or Unknown found in <213> in SEQ ID (3)
W 213	Artificial or Unknown found in <213> in SEQ ID (4)
W 213	Artificial or Unknown found in <213> in SEQ ID (5)
W 213	Artificial or Unknown found in <213> in SEQ ID (6)
W 213	Artificial or Unknown found in <213> in SEQ ID (7)
W 213	Artificial or Unknown found in <213> in SEQ ID (8)
W 213	Artificial or Unknown found in <213> in SEQ ID (9)
W 213	Artificial or Unknown found in <213> in SEQ ID (10)
W 213	Artificial or Unknown found in <213> in SEQ ID (11)
W 213	Artificial or Unknown found in <213> in SEQ ID (12)
W 213	Artificial or Unknown found in <213> in SEQ ID (13)
W 213	Artificial or Unknown found in <213> in SEQ ID (14)
W 213	Artificial or Unknown found in <213> in SEQ ID (15)
W 213	Artificial or Unknown found in <213> in SEQ ID (16)
W 213	Artificial or Unknown found in <213> in SEQ ID (17)
W 213	Artificial or Unknown found in <213> in SEQ ID (18)
W 213	Artificial or Unknown found in <213> in SEQ ID (19)
W 213	Artificial or Unknown found in <213> in SEQ ID (20)

Input Set:

Output Set:

Started: 2008-04-09 14:27:44.426
Finished: 2008-04-09 14:27:46.465
Elapsed: 0 hr(s) 0 min(s) 2 sec(s) 39 ms
Total Warnings: 120
Total Errors: 0
No. of SeqIDs Defined: 120
Actual SeqID Count: 120

Error code	Error Description

This error has occured more than 20 times, will not be displayed

SEQUENCE LISTING

<110> David J KYLE
Arun K DHAR

<120> RNA-Mediated Interference to Control Disease in Terrestrial and Aquaculture Animals

<130> E1975-00043

<140> IN: Not Yet Assigned
<141> 2006-09-06

<150> US 60/542,391
<151> 2004-04-06

<150> PCT US05/003715
<151> 2004-02-04

<160> 120

<170> PatentIn version 3.3

<210> 1
<211> 21
<212> DNA
<213> Artificial

<220>
<223> Sense siRNA strand against WSSV VP28 gene

<400> 1
gguuggauca ggcuacuuct t 21

<210> 2
<211> 21
<212> DNA
<213> Artificial

<220>
<223> Antisense siRNA strand against WSSV VP28 gene

<400> 2
gaaguagccu gauccaacct c 21

<210> 3
<211> 65
<212> DNA
<213> Artificial

<220>
<223> Top strand oligonucleotide template for siRNA

<400> 3
gatccggttg gatcaggcta cttcttcaag agagaagtag cctgatccaa cctcttttt 60

ggaaa 65

<210> 4
<211> 65
<212> DNA
<213> Artificial

<220>
<223> Bottom strand oligonucleotide template for siRNA

<400> 4
agcttttcca aaaaagaggt tggatcaggc tacttctctc ttgaagaagt agcctgatcc 60

aaccg 65

<210> 5
<211> 21
<212> DNA
<213> Artificial

<220>
<223> Sense siRNA strand against WSSV VP28 gene

<400> 5
ggcuacuuca agaugacugt t 21

<210> 6
<211> 21
<212> DNA
<213> Artificial

<220>
<223> Antisense siRNA strand against WSSV VP28 gene

<400> 6
cagucaucuu gaaguagcct g 21

<210> 7
<211> 65
<212> DNA
<213> Artificial

<220>
<223> Top strand oligonucleotide template for siRNA

<400> 7
gatccggcta cttcaagatg actgttcaag agacagtcat cttgaagtag cctgtttttt 60

ggaaa 65

<210> 8

<211> 65
<212> DNA
<213> Artificial

<220>
<223> Bottom strand oligonucleotide template for siRNA

<400> 8
agcttttcca aaaaacaggc tacttcaaga tgactgtctc ttgaacagtc atcttgaagt 60

agccg 65

<210> 9
<211> 21
<212> DNA
<213> Artificial

<220>
<223> Sense siRNA strand against WSSV VP28 gene

<400> 9
gguguggaac aacacaucat t 21

<210> 10
<211> 21
<212> DNA
<213> Artificial

<220>
<223> Antisense siRNA strand against WSSV VP28 gene

<400> 10
ugauguguug uuccacacct t 21

<210> 11
<211> 63
<212> DNA
<213> Artificial

<220>
<223> Top strand oligonucleotide template for siRNA

<400> 11
gatccggtgt ggaacaacac atcattcaag agatgatgtg ttgttccaca ccttttttgg 60

aaa 63

<210> 12
<211> 63
<212> DNA
<213> Artificial

<220>

<223> Bottom strand oligonucleotide template for siRNA

<400> 12
agcttttcca aaaaaggtgt ggaacaacac atcatctctt gaatgatgtg ttgttccaca 60

ccg 63

<210> 13
<211> 21
<212> DNA
<213> Artificial

<220>
<223> Sense siRNA strand against WSSV VP26 gene

<400> 13
gggcaaaggu aaugucaaut t 21

<210> 14
<211> 21
<212> DNA
<213> Artificial

<220>
<223> Antisense siRNA strand against WSSV VP26 gene

<400> 14
auugacauua ccuuugccct t 21

<210> 15
<211> 63
<212> DNA
<213> Artificial

<220>
<223> Top strand oligonucleotide template for siRNA

<400> 15
gatccgggca aaggtaatgt caatttcaag agaattgaca ttacctttgc ccttttttgg 60

aaa 63

<210> 16
<211> 63
<212> DNA
<213> Artificial

<220>
<223> Bottom strand oligonucleotide template for siRNA

<400> 16
agcttttcca aaaaagggca aaggtaatgt caattctctt gaaattgaca ttacctttgc 60

ccg 63

<210> 17
<211> 21
<212> DNA
<213> Artificial

<220>
<223> Sense siRNA strand against WSSV VP26 gene

<400> 17
gguccuacaa uacuccucut t 21

<210> 18
<211> 21
<212> DNA
<213> Artificial

<220>
<223> Antisense siRNA strand against WSSV VP26 gene

<400> 18
agaggaguau uguaggacct c 21

<210> 19
<211> 65
<212> DNA
<213> Artificial

<220>
<223> Top strand oligonucleotide template for siRNA

<400> 19
gatccggtcc tacaatactc ctctttcaag agaagaggag tattgtagga cctcttttttt 60

ggaaa 65

<210> 20
<211> 65
<212> DNA
<213> Artificial

<220>
<223> Bottom strand oligonucleotide template for siRNA

<400> 20
agcttttcca aaaaagaggt cctacaatac tcctcttctc ttgaaagagg agtattgtag 60

gaccg 65

<210> 21
<211> 21

<212> DNA
<213> Artificial

<220>
<223> Sense siRNA strand against WSSV VP26 gene

<400> 21
ggaaacauua agggaaauat t 21

<210> 22
<211> 21
<212> DNA
<213> Artificial

<220>
<223> Antisense siRNA strand against WSSV VP26 gene

<400> 22
uauuucccuu aauguuucct g 21

<210> 23
<211> 64
<212> DNA
<213> Artificial

<220>
<223> Top strand oligonucleotide template for siRNA

<400> 23
gatccgaaac attaagggaa atattcaaga gatatttccc ttaatgtttc ctgttttttg 60

gaaa 64

<210> 24
<211> 62
<212> DNA
<213> Artificial

<220>
<223> Bottom strand oligonucleotide template for siRNA

<400> 24
agcttttcca aaaaagaaac attaagggaa atatctcttg aatatttccc ttaatgtttc 60

cg 62

<210> 25
<211> 21
<212> DNA
<213> Artificial

<220>
<223> Sense siRNA strand against WSSV ProIn gene

<400> 25
gggaagaauu cuacaagaat t 21

<210> 26
<211> 21
<212> DNA
<213> Artificial

<220>
<223> Antisense siRNA strand against WSSV ProIn gene

<400> 26
uucuuguaga auucuuccct g 21

<210> 27
<211> 65
<212> DNA
<213> Artificial

<220>
<223> Top strand oligonucleotide template for siRNA

<400> 27
gatccgggaa gaattctaca agaattcaag agattcttgt agaattcttc cctgtttttt 60

ggaaa 65

<210> 28
<211> 65
<212> DNA
<213> Artificial

<220>
<223> Bottom strand oligonucleotide template for siRNA

<400> 28
agcttttcca aaaaacaggg aagaattcta caagaatctc ttgaattctt gtagaattct 60

tcccg 65

<210> 29
<211> 21
<212> DNA
<213> Artificial

<220>
<223> Sense siRNA strand against WSSV ProIn gene

<400> 29
gggacccuuu caugaaacat t 21

<210> 30
<211> 21
<212> DNA
<213> Artificial

<220>
<223> Antisense siRNA strand against WSSV ProIn gene

<400> 30
uguuucauga aaggguccct t 21

<210> 31
<211> 63
<212> DNA
<213> Artificial

<220>
<223> Top strand oligonucleotide template for siRNA

<400> 31
gatccgggac cctttcatga aacattcaag agatgtttca tgaaagggtc ccttttttgg 60

aaa 63

<210> 32
<211> 63
<212> DNA
<213> Artificial

<220>
<223> Bottom strand oligonucleotide template for siRNA

<400> 32
agcttttcca aaaaagggac cctttcatga aacatctctt gaatgtttca tgaaagggtc 60

ccg 63

<210> 33
<211> 21
<212> DNA
<213> Artificial

<220>
<223> Sense siRNA strand against WSSV ProIn gene

<400> 33
ggcauacaga ugcccuuuat t 21

<210> 34
<211> 21
<212> DNA
<213> Artificial

<220>
<223> Antisense siRNA strand against WSSV ProIn gene

<400> 34
uaaagggcau cuguaugcct t 21

<210> 35
<211> 63
<212> DNA
<213> Artificial

<220>
<223> Top strand oligonucleotide template for siRNA

<400> 35
gatccggcat acagatgccc tttattcaag agataaaggg catctgtatg ccttttttgg 60

aaa 63

<210> 36
<211> 63
<212> DNA
<213> Artificial

<220>
<223> Bottom strand oligonucleotide template for siRNA

<400> 36
agcttttcca aaaaaggcat acagatgccc tttatctctt gaataaaggg catctgtatg 60

ccg 63

<210> 37
<211> 21
<212> DNA
<213> Artificial

<220>
<223> Sense siRNA strand against WSSV Rr092 gene

<400> 37
ggaagauuca ucuguucgat t 21

<210> 38
<211> 21
<212> DNA
<213> Artificial

<220>
<223> Antisense siRNA strand against WSSV Rr092 gene

<400> 38
ucgaacagau gaaucuucct g 21

<210> 39
<211> 63
<212> DNA
<213> Artificial

<220>
<223> Top strand oligonucleotide template for siRNA

<400> 39
gatccgaaga ttcatctgtt cgattcaaga gatcgaacag atgaatcttc ctgtttttgg 60

aaa 63

<210> 40
<211> 65
<212> DNA
<213> Artificial

<220>
<223> Bottom strand oligonucleotide template for siRNA

<400> 40
agcttttcca aaaaacagga agattcatct gttcgatctc ttgaatcgaa cagatgaatc 60

ttccg 65

<210> 41
<211> 21
<212> DNA
<213> Artificial

<220>
<223> Sense siRNA strand against WSSV Rr092 gene

<400> 41
ggacaugauu augcgugugt t 21

<210> 42
<211> 21
<212> DNA
<213> Artificial

<220>
<223> Antisense siRNA strand against WSSV Rr092 gene

<400> 42
cacacgcaua aucaugucct g 21

<210> 43
<211> 65
<212> DNA

<213> Artificial

<220>
<223> Top strand oligonucleotide template for siRNA

<400> 43
gatccggaca tgattatgcg tgtgttcaag agacacacgc ataatcatgt cctgtttttt 60

ggaaa 65

<210> 44
<211> 65
<212> DNA
<213> Artificial

<220>
<223> Bottom strand oligonucleotide template for siRNA

<400> 44
agcttttcca aaaaacagga catgattatg cgtgtgtctc ttgaacacac gcataatcat 60

gtccg 65

<210> 45
<211> 21
<212> DNA
<213> Artificial

<220>
<223> Sense siRNA strand against WSSV Rr092 gene

<400> 45
ggauaccauc aauagaaagt t 21

<210> 46
<211> 21
<212> DNA
<213> Artificial

<220>
<223> Antisense siRNA strand against WSSV Rr092 gene

<400> 46
cuuucuauug augguaucct t 21

<210> 47
<211> 63
<212> DNA
<213> Artificial

<220>
<223> Top strand oligonucleotide template for siRNA

<400> 47
gatccggata ccatcaatag aaagttcaag agactttcta ttgatggtat ccttttttgg 60

aaa 63

<210> 48
<211> 63
<212> DNA
<213> Artificial

<220>
<223> Bottom strand oligonucleotide template for siRNA

<400> 48
agcttttcca aaaaaggata ccatcaatag aaagtctctt gaactttcta ttgatggtat 60

ccg 63

<210> 49
<211> 21
<212> DNA
<213> Artificial

<220>
<223> Sense siRNA strand against WSSV DNAPol gene

<400> 49
ggaagugguc aucuacgact t 21

<210> 50
<211> 21
<212> DNA
<213> Artificial

<220>
<223> Antisense siRNA strand against WSSV DNAPol gene

<400> 50
gucguagaug accacuucct t 21

<210> 51
<211> 63
<212> DNA
<213> Artificial

<220>
<223> Top strand oligonucleotide template for siRNA

<400> 51
gatccggaag tggtcatcta cgacttcaag agagtcgtag atgaccactt ccttttttgg 60

aaa 63

<210> 52
<211> 63
<212> DNA
<213> Artificial

<220>
<223> Bottom strand oligonucleotide template for siRNA

<400> 52
agcttttcca aaaaaggaag tggtcatcta cgactctctt gaagtcgtag atgaccactt 60

ccg 63

<210> 53
<211> 21
<212> DNA
<213> Artificial

<220>
<223> Sense siRNA strand against WSSV DNAPol gene

<400> 53
ggaagaacau gaaacuguct t 21

<210> 54
<211> 21
<212> DNA
<213> Artificial

<220>
<223> Antisense siRNA strand against WSSV DNAPol gene

<400> 54
gacaguuuca uguucuucct t 21

<210> 55
<211> 63
<212> DNA
<213> Artificial

<220>
<223> Top strand oligonucleotide template for siRNA

<400> 55
gatccggaag aacatgaaac tgtcttcaag agagacagtt tcatgttctt ccttttttgg 60

aaa 63

<210> 56
<211> 63
<212> DNA
<213> Artificial

<220>
<223> Bottom strand oligonucleotide template for siRNA

<400> 56
agcttttcca aaaaaggaag aacatgaaac tgtctctctt gaagacagtt tcatgttctt 60

ccg 63

<210> 57
<211> 21
<212> DNA
<213> Artificial

<220>
<223> Sense siRNA strand against WSSV DNAPol gene

<400> 57
ggagcauugu cauuuaauat t 21

<210> 58
<211> 21
<212> DNA
<213> Artificial

<220>
<223> Antisense siRNA strand against WSSV DNAPol gene

<400> 58
uauuaaauga caaugcucct c 21

<210> 59
<211> 65
<212> DNA
<213> Artificial

<220>
<223> Top strand oligonucleotide template for siRNA

<400> 59
gatccggagc attgtcattt aatattcaag agatattaaa tgacaatgct cctcttttttt 60

ggaaa 65

<210> 60
<211> 65
<212> DNA
<213> Artificial

<220>
<223> Bottom strand oligonucleotide template for siRNA

<400> 60

agcttttcca aaaaagagga gcattgtcat ttaatatctc ttgaatatta aatgacaatg 60

ctccg 65

<210> 61
<211> 21
<212> DNA
<213> Artificial

<220>
<223> Sense siRNA strand against Taura syndrome virus RdRp gene

<400> 61
ggagugucua augcggagat t 21

<210> 62
<211> 21
<212> DNA
<213> Artificial

<220>
<223> Antisense siRNA strand against Taura syndrome virus RdRp gene

<400> 62
ucuccgcauu agacacucct g 21

<210> 63
<211> 65
<212> DNA
<213> Artificial

<220>
<223> Top strand oligonucleotide template for siRNA

<400> 63
gatccggagt gtctaatgcg gagattcaag agatctccgc attagacact cctgtttttt 60

ggaaa 65

<210> 64
<211> 65
<212> DNA
<213> Artificial

<220>
<223> Bottom strand oligonucleotide template for siRNA

<400> 64
agcttttcca aaaaacagga gtgtctaatg cggagatctc ttgaatctcc gcattagaca 60

ctccg 65

<210> 65
<211> 21
<212> DNA
<213> Artificial

<220>
<223> Sense siRNA strand against Taura syndrome virus RdRp gene

<400> 65
gggaagagcg gaaagcagat t 21

<210> 66
<211> 21
<212> DNA
<213> Artificial

<220>
<223> Antisense siRNA strand against Taura syndrome virus RdRp gene

<400> 66
ucugcuuucc gcucuuccct t 21

<210> 67
<211> 63
<212> DNA
<213> Artificial

<220>
<223> Top strand oligonucleotide template for siRNA

<400> 67
gatccgggaa gagcggaaag cagattcaag agatctgctt tccgctcttc ccttttttgg 60

aaa 63

<210> 68
<211> 63
<212> DNA
<213> Artificial

<220>
<223> Bottom strand oligonucleotide template for siRNA

<400> 68
agcttttcca aaaaagggaa gagcggaaag cagatctctt gaatctgctt tccgctcttc 60

ccg 63

<210> 69
<211> 21
<212> DNA
<213> Artificial

<220>
<223> Sense siRNA strand against Taura syndrome virus RdRp gene

<400> 69
ggaauucauu guugacaact t 21

<210> 70
<211> 21
<212> DNA
<213> Artificial

<220>
<223> Antisense siRNA strand against Taura syndrome virus RdRp gene

<400> 70
guugucaaca augaauucct c 21

<210> 71
<211> 65
<212> DNA
<213> Artificial

<220>
<223> Top strand oligonucleotide template for siRNA

<400> 71
gatccggaat tcattgttga caacttcaag agagttgtca acaatgaatt cctcttttttt 60

ggaaa